

TS 6373
DSC:SWT

A B S T R A C T

EMAT WELD INSPECTION

A method for inspecting welds between welded tubular ends includes arranging a series electromagnetic acoustic transducer (EMAT) assemblies in circumferential direction adjacent to an inner and/or outer surface of at least one of the welded tubular ends and inducing the EMAT assemblies to transmit sequentially or simultaneously acoustic shear wave signals towards the weld and to detect the shear waves reflected by and/or passing through the weld while the EMAT assemblies are maintained in a substantially fixed position relative to the weld such that at least a substantial part of the weld is scanned by the EMAT assemblies instantly after the weld is made.